

Product Name: T 0070907

Catalog No.: 2301

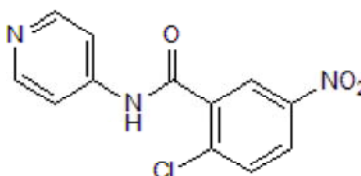
Batch No.: 1

CAS Number: 313516-66-4

IUPAC Name: 2-Chloro-5-nitro-*N*-4-pyridinylbenzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₂H₈N₃O₃Cl
Batch Molecular Weight: 277.67
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 1eq. HCl to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.48 (Chloroform:Methanol [9:1])
HPLC: Shows >99.1% purity
¹H NMR: Consistent with structure
 Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	51.91	2.9	15.13
Found	51.53	2.98	14.85

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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IUPAC Name: 2-Chloro-5-nitro-*N*-4-pyridinylbenzamide

Description:

Potent and selective irreversible PPAR γ antagonist (IC₅₀ = 1 nM). Displays > 800-fold selectivity for PPAR γ over PPAR α and PPAR δ . Blocks transcriptional activity of PPAR γ in vitro and inhibits rosiglitazone-induced adipogenesis.

Physical and Chemical Properties:

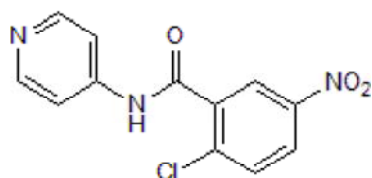
Batch Molecular Formula: C₁₂H₈N₃O₃Cl

Batch Molecular Weight: 277.67

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

1eq. HCl to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Schaefer et al (2005) Peroxisome proliferator-activated receptor γ inhibition prevents adhesion to the extracellular matrix and induces anoikis in hepatocellular carcinoma cells. *Cancer Res.* **65** 2251. PMID: 15781638.

Rockwell and Kaminski (2004) A cyclooxygenase metabolite of anandamide causes inhibition of interleukin-2 secretion in murine splenocytes. *J.Pharmacol.Exp.Ther.* **311** 683. PMID: 15284281.

Lee et al (2002) T0070907, a selective ligand for peroxisome proliferator-activated receptor γ , functions as an antagonist of biochemical and cellular activities. *J.Biol.Chem.* **277** 19649. PMID: 11877444.

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